

Characteristics of nutrient supply from forest areas in eastern river in Toyama prefecture read from attached algae

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It is pointed out that the origin of nutrient salt flowing from Hayatsuki River located in the eastern part of Toyama Prefecture to Toyama Bay is a forest area upstream from the nitrate nitrogen stable isotopic ratio ($\delta^{15}\text{N} - \text{NO}_3$) (Zhang · Sano, 2014). However, in previous studies, the area has remained at an altitude of 1000 m or less, and research has not been conducted on altitudes of more than 1000 m at which alpine forest areas serving as a source spread, and for multiple catchment areas. The aims of this study is to grasp the dynamics of water from the uppermost stream and to the estuary and evaluate nutrient supply.